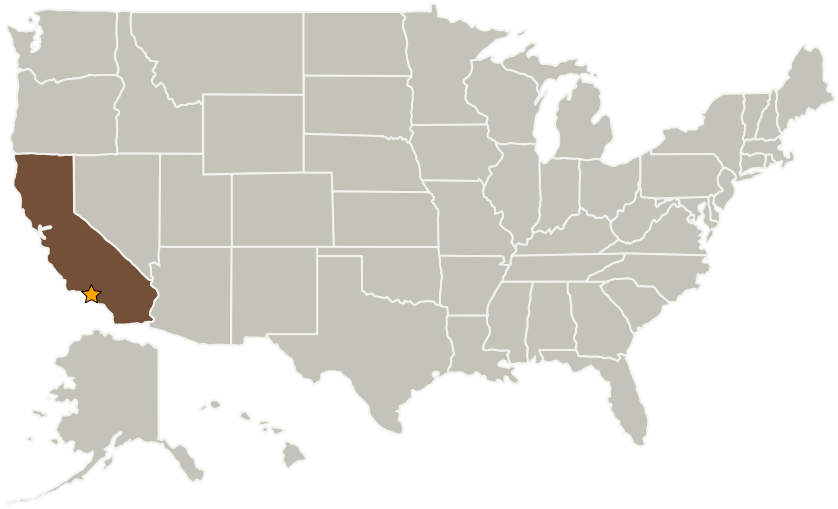
Space Compatible Radar Absorbing Materials, Phase I

Completed Technology Project (2008 - 2008)

Project Introduction

This SBIR Phase 1 project shall investigate novel radar absorbing materials (RAM) for use in space or simulated space environments. These materials are lightweight composites having novel fiber architecture, enabling a combination of performance characteristics not available with conventional RAM: high broadband absorption, lightweight, low outgassing, low contamination, and high power capability. The fiber materials potentially serve a functional role in composite radar absorbing structures. Phase 1 will gather performance requirements and assess the potential benefits compared with current baseline materials. Selected fiber configurations will be prepared and characterized.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Jet Propulsion Laboratory(JPL)	Lead Organization	NASA Center	Pasadena, California
Energy Science Laboratories, Inc.	Supporting Organization	Industry	San Diego, California

Primary U.S. Work Locations
California

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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Jet Propulsion Laboratory (JPL)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

Robert Yamaki

Technology Areas

Primary:

- TX12 Materials, Structures, Mechanical Systems, and Manufacturing
  - TX12.1 Materials
    - TX12.1.1 Lightweight Structural Materials